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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/808,414	0	3/25/2004	Norihisa Miyoshi	2004_0469A	5261	
513	7590	03/09/2005		EXAMINER		
WENDER	TH, LIN	D & PONACK, L	RINEHART, KENNETH			
2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021				ART UNIT	PAPER NUMBER	
				3749		

DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		<7P				
	Application No.	Applicant(s)				
	10/808,414	MIYOSHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kenneth B Rinehart	3749				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25 Ma	<u>arch 2004</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)  Claim(s) <u>1-36</u> is/are pending in the application. 4a) Of the above claim(s) <u>7-36</u> is/are withdrawn 5)  Claim(s) is/are allowed. 6)  Claim(s) <u>1-6</u> is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or	from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 25 March 2004 is/are: a Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11)☐ The oath or declaration is objected to by the Examiner	a) accepted or b) objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No In this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3/25/04</u> .	5) Notice of Informal Po	atent Application (PTO-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Oshita et al (5138982). Oshita et al shows An incombustible withdrawing system for withdrawing an incombustible from a fluidized-bed furnace having a fluidized bed formed therein by a fluidized medium (16, fig. 1), said incombustible withdrawing system comprising, a mixture delivery path to deliver a mixture of the fluidized medium and the incombustible from a bottom of the iuidized-bed furnace (4, fig. 1), a fluidized-bed separating chamber disposed downstream of said mixture delivery path to fluidize the mixture by a fluidizing gas (8, fig. 1) and to separate the mixture into a first separated mixture having a high concentration of the fluidized medium (20, fig. 1) and a second separated mixture having a high concentration of the incombustible (mixture from right of 19, fig. 1); a return passage to return the first separated mixture to the fluidized-bed furnace (20, fig. 1); and an incombustible discharge passage to discharge the second separated mixture to an exterior of the fluidized-bed furnace (to right of 19, fig. 1), wherein said incombustible discharge passage is disposed downstream of said fluidized-bed separating chamber (fig. 1).

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticiapted by Klaschka (4535706). Klaschka shows An incombustible withdrawing system for withdrawing an

incombustible from a fluidized-bed furnace having a fluidized bed formed therein by a fluidized medium (17, fig. 1), said incombustible withdrawing system comprising, a mixture delivery path to deliver a mixture of the fluidized medium and the incombustible from a bottom of the iuidized-bed furnace (21, fig. 1), a fluidized-bed separating chamber disposed downstream of said mixture delivery path to fluidize the mixture by a fluidizing gas (22, fig. 1) and to separate the mixture into a first separated mixture having a high concentration of the fluidized medium (above 43, fig. 1) and a second separated mixture having a high concentration of the incombustible (43, fig. 1); a return passage to return the first separated mixture to the fluidizedbed furnace (above 43, fig. 1); and an incombustible discharge passage to discharge the second separated mixture to an exterior of the fluidized-bed furnace (43, fig. 1), wherein said incombustible discharge passage is disposed downstream of said fluidized-bed separating chamber (43, fig. 1), said incombustible discharge passage delivers the second separated mixture vertically upward and discharges the second separated mixture from a position located higher than a surface of the fluidized bed to the exterior of the fluidized-bed furnace (40, 43, fig. 1), further comprising a fluidized medium delivering device to deliver the second separated mixture in a vertical direction in said incombustible discharge passage (41, fig. 1), a fluidized medium delivering device to deliver the second separated mixture in said incombustible discharge passage with at least an angle of repose of the fluidized medium with respect to a horizontal plane (fig. 1.).

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## Claim Rejections - 35 USC § 102

Claims 1, 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Abdulally (5510085). Abdullay shows An incombustible withdrawing system for withdrawing an

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incombustible from a fluidized-bed furnace having a fluidized bed formed therein by a fluidized medium (36, fig. 2), said incombustible withdrawing system comprising, a mixture delivery path to deliver a mixture of the fluidized medium and the incombustible from a bottom of the iuidized-bed furnace (78, fig. 2), a fluidized-bed separating chamber disposed downstream of said mixture delivery path to fluidize the mixture by a fluidizing gas (74, fig. 2) and to separate the mixture into a first separated mixture having a high concentration of the fluidized medium (82, fig. 2) and a second separated mixture having a high concentration of the incombustible (70, fig. 2); a return passage to return the first separated mixture to the fluidized-bed furnace (82, fig. 2); and an incombustible discharge passage to discharge the second separated mixture to an exterior of the fluidized-bed furnace (72, fig. 2), said fluidized-bed separating chamber comprises a passage portion connected to said incombustible discharge passage, wherçin said passage portion has cross-sectional areas gradually increased toward said incombustible discharge passage, and a bottom surface inclined downward to said incombustible discharge passage (right of plenum 62B, fig. 2).

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to beds in general: Garci Mallol (5570645), Morin et al (5996512).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B Rinehart whose telephone number is 571-272-4881. The examiner can normally be reached on 7:20 -4:20.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on 571-272-4881. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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KENNETH RINEHART PRIMARY EXAMINER